

National Stroke Project – Atrial Fibrillation Analytic Flow Chart

12/5/2000

Data analysis is completed on 750 randomly selected fee-for-service acute Medicare beneficiary (all ages) inpatient medical records with a principal or secondary discharge diagnosis of atrial fibrillation (ICD-9-CM code 427.31) remaining after exclusion criteria are applied.

Denominator (D) Inclusions:

Randomly selected acute Medicare beneficiary (all ages) inpatient medical records with a principal or secondary discharge diagnosis of atrial fibrillation (ICD-9-CM code 427.31)

AND

Numerator (N) Inclusions:

Principal or secondary discharge diagnosis of atrial fibrillation and Discharge timeframe: April 1998 – March 1999
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AND

Numerator (N) Exclusions:

Transferred to another acute care hospital or Expired or Discharged against medical advice or Unable to determine discharge disposition

$$\frac{\text{\# AFIB CASES INCLUDED IN ANALYSIS}}{\text{\# AFIB CASES SUBMITTED}} = \frac{N}{D} = \text{______} \times 100 = \text{______} \%$$

**CASES MUST PASS THESE REQUIREMENTS TO BE CONSIDERED FOR THE
REMAINING PERFORMANCE MEASURE AND TEST MEASURES.
FURTHER EXCLUSIONS MAY APPLY.**

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Analytic Flow Chart**

Quality Indicator #1 – Proportion of discharges that met inclusion criteria and had no exclusions that were prescribed warfarin at discharge

Denominator (D) Inclusions:

Physician documentation of atrial fibrillation
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AND

Atrial fibrillation at discharge or Intermittent atrial fibrillation
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AND

Denominator (D) Exclusions (which include possible contraindications to warfarin):

Note: Cases are excluded only once (based on first contraindications identified through analysis), even if multiple contraindications are present.
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Lone atrial fibrillation or Planned surgery within 7 days following discharge or Physician documentation of risk for falls or Alcoholism/drug abuse (history or current) or Dual chamber pacemaker (history or current) or Schizophrenia/active psychosis (history or current) or Terminal illness (life expectancy < 6 months) or Terminal/comfort care or Allergy to warfarin or Complication related to warfarin (history or current) or Hepatic failure (history or current) or Unrepaired intracranial aneurysm or Bleeding disorder or Warfarin discontinued due to a complication and not restarted during stay or Endocarditis/pericarditis (within 6 months prior to hospitalization or current) or

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Quality Indicator #1

Denominator (D) Exclusions (continued)

Extensive/metastatic cancer (history or current)
or
Brain/CNS cancer (history or current)
or
Seizures (history or current)
or
Malignant hypertension (history or current)
or
CVA, hemorrhagic (history or current)
or
Peptic ulcer (current)
or
Intracranial surgery/biopsy (current)
or
Hemorrhage, any type (history or current)
or
Physician documentation of rationale for not prescribing warfarin:
risk for bleeding
or
risk for falls
or
mental status
or
liver disease
or
terminal illness
or
patient refused, reason not specified
or
patient refused, did not want risk
or
discontinued due to bleeding
or
on ASA as a regular medication
or
arthritis requiring NSAIDs or ASA

AND

Numerator (N) Inclusions:

Warfarin prescribed at discharge
or
Warfarin listed as a discharge medication
or
Plan to start warfarin after discharge

CASES IN THE DENOMINATOR PRESCRIBED WARFARIN AT DISCHARGE OR HAD A PLAN TO START WARFARIN AFTER DISCHARGE = $\frac{N}{D} = \frac{\quad}{\quad} \times 100 = \quad\% \quad$

AFIB CASES THAT MET INCLUSION CRITERIA AND HAD NO EXCLUSIONS

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Test Quality Indicator #1 – Echocardiogram for new onset atrial fibrillation

Denominator (D) Inclusions:

Physician documentation of atrial fibrillation and Atrial fibrillation is documented by the physician as new onset
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AND

Denominator (D) Exclusions:

Terminal/comfort care

AND

Numerator (N) Inclusions:

Echocardiogram within one year prior to this hospitalization or Echocardiogram during this hospitalization or Echocardiogram planned following discharge
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CASES IN THE DENOMINATOR WITH AN
ECHOCARDIOGRAM OBTAINED OR PLANNED
CASES THAT MET INCLUSION CRITERIA AND
HAD NO EXCLUSIONS

$$= \frac{N}{D} = \text{___} \times 100 = \text{___} \%$$

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Test Quality Indicator #2 – Thyroid laboratory test for new onset atrial fibrillation

Denominator (D) Inclusions:

Physician documentation of atrial fibrillation and Atrial fibrillation is documented by the physician as new onset
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AND

Denominator (D) Exclusions:

Terminal/comfort care

AND

Numerator (N) Inclusions:

Thyroid laboratory test obtained

$$\frac{\# \text{ CASES IN THE DENOMINATOR WITH A THYROID LAB TEST}}{\# \text{ CASES THAT MET INCLUSION CRITERIA AND HAD NO EXCLUSIONS}} = \frac{N}{D} = \text{___} \times 100 = \text{___} \%$$

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Test Quality Indicator #3 – Patient/family/care giver education regarding warfarin at discharge

Denominator (D) Inclusions:

Warfarin prescribed at discharge or Plan to start warfarin after discharge
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AND

Denominator (D) Exclusions:

None

AND

Numerator (N) Inclusions:

Warfarin education given

CASES IN THE DENOMINATOR RECEIVING
EDUCATION REGARDING WARFARIN AT DISCHARGE
CASES THAT MET INCLUSION CRITERIA

$$= \frac{N}{D} = \text{___} \times 100 = \text{___}\%$$

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Test Quality Indicator #4 – Planned follow-up PT/INR

Denominator (D) Inclusions:

Warfarin prescribed at discharge

AND

Denominator (D) Exclusions:

None

AND

Numerator (N) Inclusions:

Planned follow-up PT/INR

CASES IN THE DENOMINATOR WITH PLANNED FOLLOW-UP PT/INR
CASES THAT MET INCLUSION CRITERIA

= $\frac{N}{D}$ = ____ X 100 = ____%

Note: A plan to start warfarin after discharge is not an inclusion for this test measure denominator.